



Honorable Philip E. Coyle
Director, Operational Test and Evaluation

Remarks to
Southern Maryland Naval Alliance and
Naval Industrial Alliance Indian Head Division

June 26, 2000

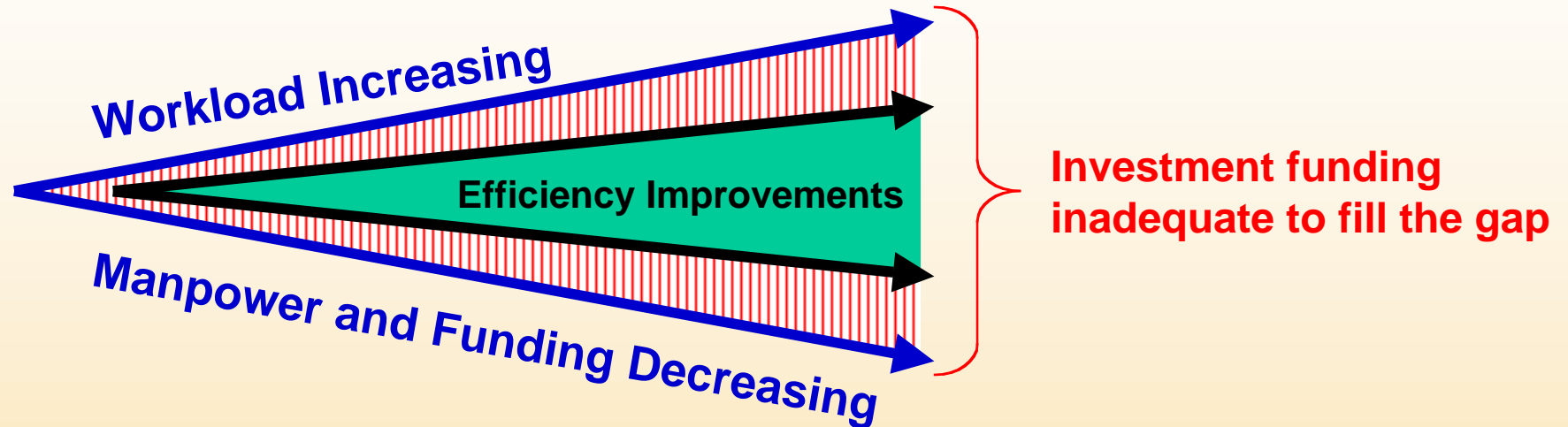


New Role for DOT&E

- June 7, 1999 the Secretary of Defense approved the transfer of certain test and evaluation responsibilities to DOT&E
 - **Oversight of test ranges and facilities**
 - **Test investments**
 - **Sponsorship for several test related programs**
 - Central Test and Evaluation Investment Program (CTEIP)
 - Joint Technical Coordinating Groups for Munitions Effectiveness and Aircraft Survivability
 - Threat Systems Office
 - Precision Guided Weapons Countermeasures Test Directorate



Growing Divergence



- Test and Evaluation Workload is growing
- Resources for test and evaluation down significantly
- T&E centers are focused on increasing efficiency
- Investment is not keeping pace with technology



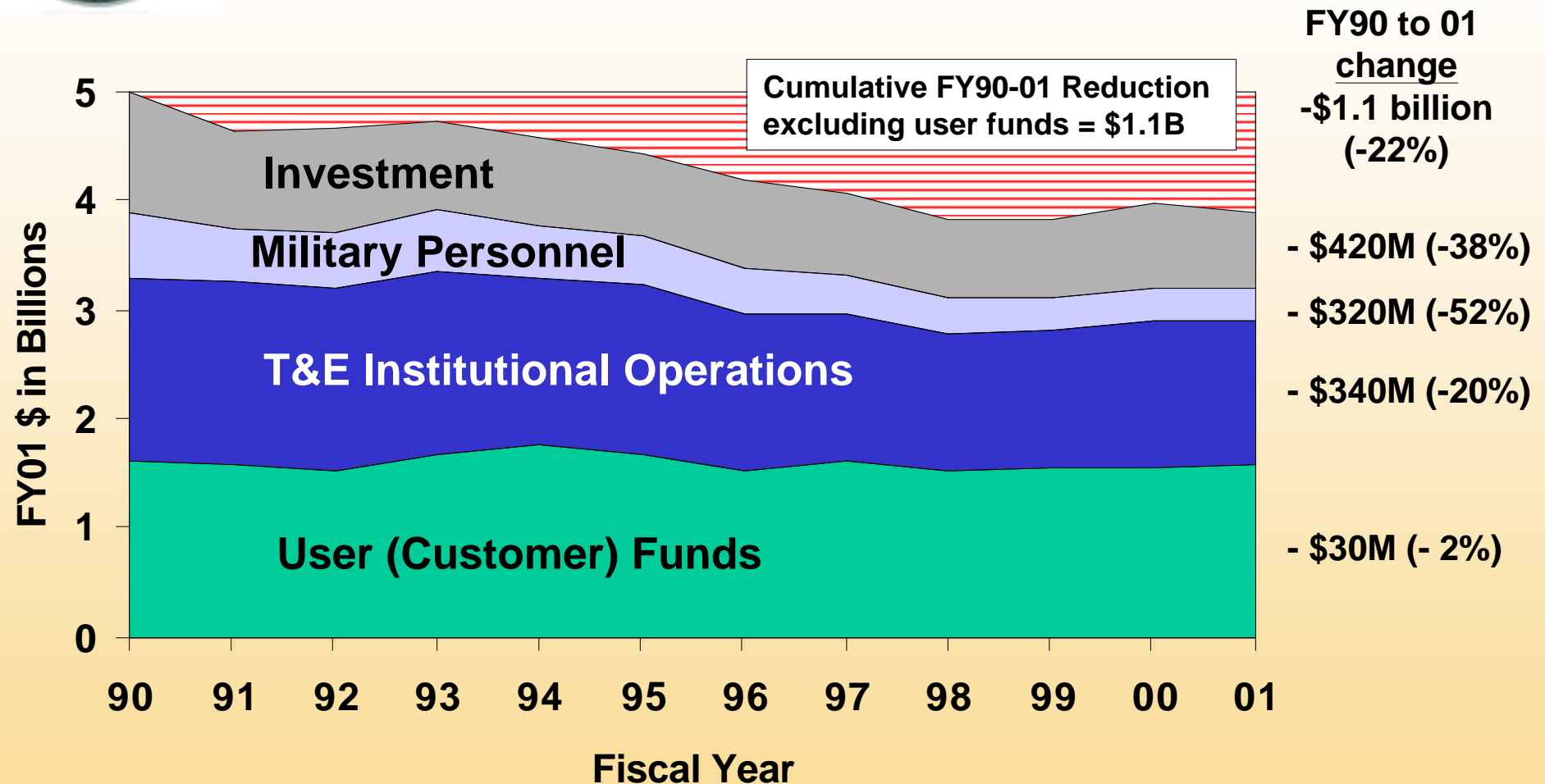
Workload Increasing

- Modernization
- Increasingly complexity of weapon systems
- Interoperability
- Information Assurance
- Electromagnetic Environmental Effects

- **Army operational test workload up 113% between 1993 and 2000**
- **Navy has more operational test programs than at any time in 55 year history**
- **Air Force operational test workload increased 300 % between 1992 and 1999**

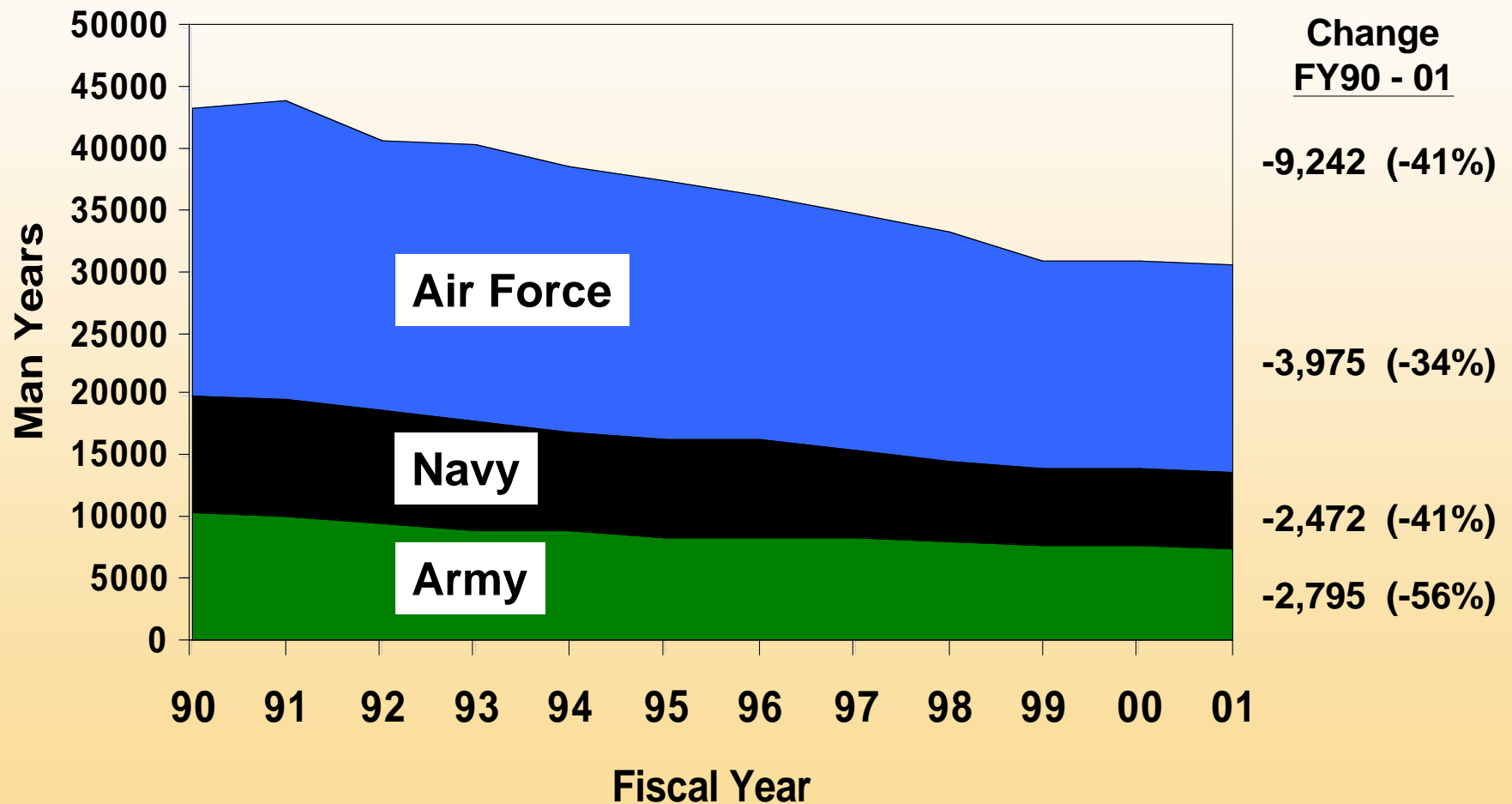


Major Range and Test Facility Base Funding Trends





MRTFB Manpower Trends (Military & Civilian)





Gains in Efficiency

- Taking advantage of technological gains
 - Obtaining more information from individual tests
 - Processing test data real time
 - Distributed test capability
- Modernizing our aging facilities to replace equipment
 - Labor intensive
 - Expensive to operate and maintain
- Business process re-engineering

**Improvements in efficiency are limited
by investment dollars**



Net Loss of Capability

- Growing imbalance in the workforce
 - Fewer military
 - Aging workforce
 - Lack of infusion of recent college graduates
- Forced to close little used but critical capabilities

Long-term implications are potentially significant



Impacts Today

- Delays to test programs
 - Breakdown of aging equipment and lack of spare parts
 - Inadequate reserve capacity
 - Insufficient operational test funding to support other than highest priority programs
- Increasing cost to test customers
 - Limits the scope of testing
 - Programs force to pay cost that should have been covered by T&E facility or organization
- Increased risk
 - Limited scope of testing
 - Test technology lags technology of systems being tested

**Effects even felt by the highest priority
weapon system programs**



Need to Modernize T&E Infrastructure

- Replace old and inefficient facilities
- Key to supporting future acquisition programs

Missile Defense

Unpiloted Vehicles

Digitization

Directed Energy

Multi-spectral Stealth

Remote Sensing

Precision Location

Space Systems

Hypersonics

- Areas for future emphasis
 - Ballistic Missile Target Position Location and Telemetry Instrumentation
 - Ground test capability for air and space components
 - Distributed simulation
 - Common testing and training modeling and simulation
 - Realistic countermeasures

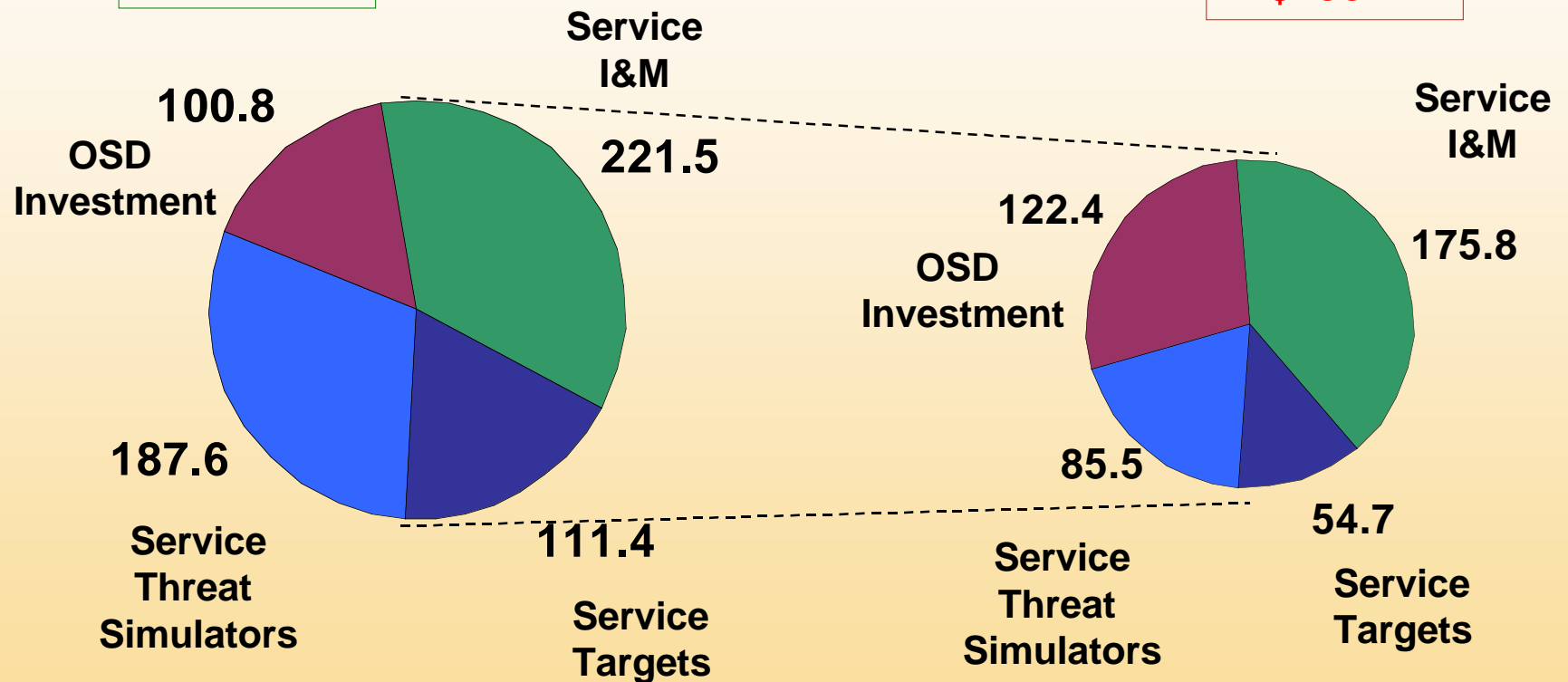


RDT&E T&E Investment Funding Reduced

**FY90 Total
\$621M**

29.5% Reduction since FY90

**FY01 Total
\$438M**



*RDT&E Funding (FY01 \$)

Includes T&E Investment, Targets and Threat Simulators; excludes Military Construction and Procurement



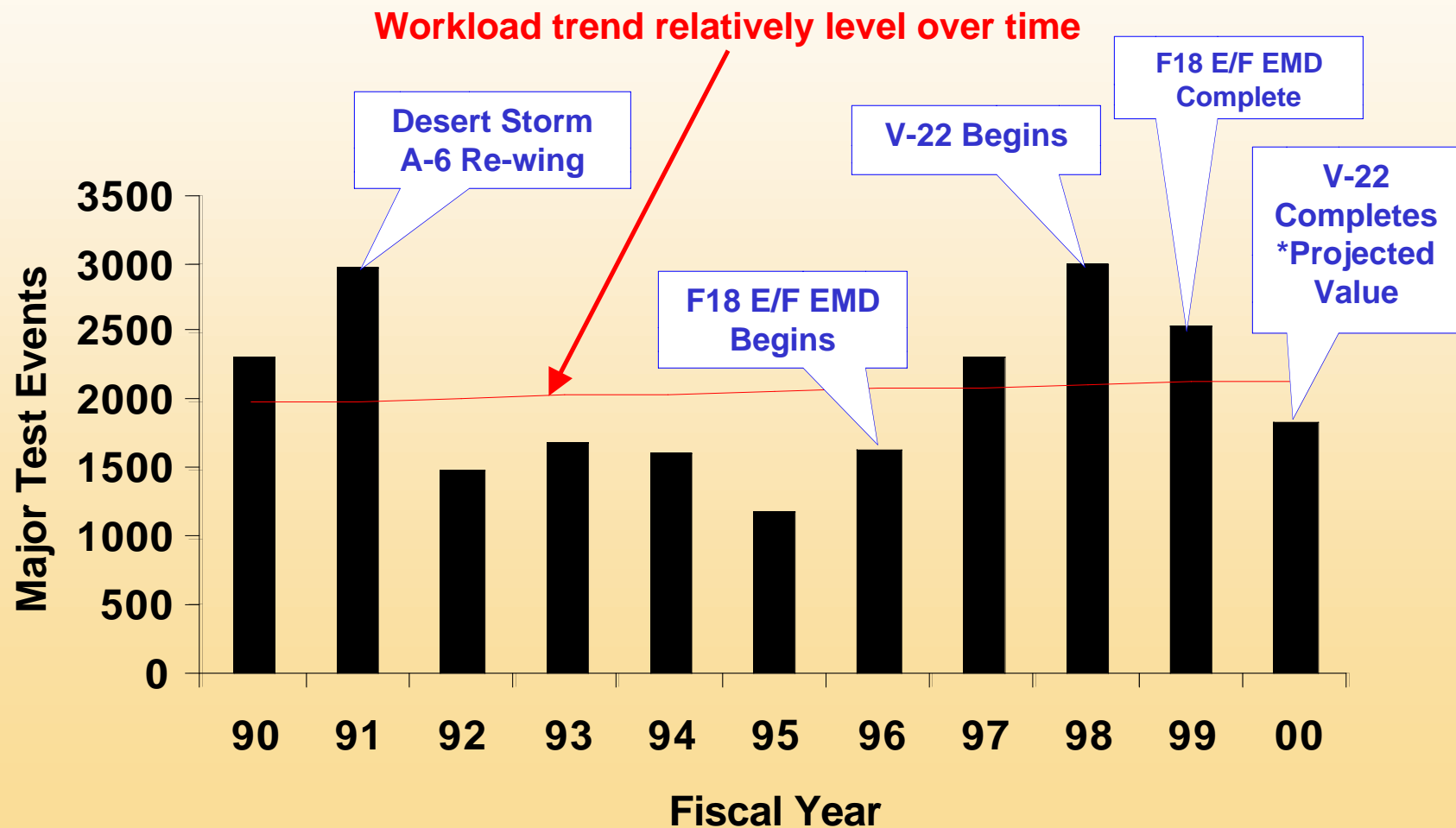
What is happening at Patuxent River?

Comparison of FY94 to FY01

- T&E workload increased approximately +6%
- T&E institutional funding dipped in the FY96-99 time frame but recovered in FY00 when Navy began zero based budget review for T&E centers
- Manpower (Military, Civilian and Contractor) is down -15%
- Navy T&E Investment funding up approximately +37%
- Central Test and Evaluation Investment Program (CTEIP) funding is down significantly
 - CTEIP invested approximately \$240M at Patuxent River between FY90 and FY01
 - CTEIP currently funds 3 projects at Patuxent River and an additional 4 projects managed by other ranges that are expected to benefit Patuxent River



NAWC-Aircraft Division, Patuxent River Open Air Range





Defense Science Board Task Force on Test and Evaluation

September 1999

The focus of T&E should be on optimizing support to the acquisition process, not on minimizing (or even 'optimizing') T&E capacity



T&E Board of Directors

Strategic Planning Initiative

Vision

- **To provide T&E capabilities which thoroughly and realistically test and evaluate weapons and support systems**

Mission

- **To provide world-class support to acquisition programs and decision makers to ensure effective and suitable systems are fielded, while continuing to be responsible stewards of the environment**



T&E Board of Directors

Strategic Planning Initiative

- **Key Issues**
 - **Personnel and Facilities (Resources)**
 - **Cost Visibility**
 - **Interoperability**
 - **Combined DT/OT**
 - **Environmental Compliance**
 - **Information Assurance**



T&E Board of Directors

Strategic Planning Initiative

Goals

- **Goal 1: Provide and maintain an experienced, trained, flexible, multi-skilled government civilian, military, and contractor workforce; continuously infused with new talent; to meet the T&E needs of the DoD.**
- **Goal 2: Cause the modification of the Defense Acquisition University curriculum to provide PM and PEO a more complete appreciation of the value of T&E to their programs.**
- **Goal 3: Improve T&E infrastructure management and investments to ensure facilities and equipment keep pace with the technical demands of the systems to be tested, improve the ability to execute T&E programs efficiently and economically, and to improve working conditions for T&E personnel.**



T&E Board of Directors

Strategic Planning Initiative

Goals (continued)

- **Goal 4: Develop effective T&E standards, policies, and processes which are consistent across the Services including cost visibility and pricing/costing practices.**
- **Goal 5: Establish policies, facilities, practices to test and evaluate increasingly complex and rapidly evolving information technologies that will characterize future systems especially information assurance and interoperability.**
- **Goal 6: Require the early involvement of the OTAs in development programs in order to (1) provide the PM with early insights into operational issues which may be inherent in the system and (2) to encourage the execution of the combined DT/OT where appropriate while maintaining the independence of the operational evaluation.**
- **Goal 7: Continue to be responsible stewards of the environment provided for T&E use on the land, in the air, on/under the sea, and in space.**



Major Range and Test Facility Base Funding Policy

The Department has undertaken a congressionally directed review of how it funds its Research and Development and Test and Evaluation (RDT&E) facilities



Summary

- **Continuing divergence in T&E resources**
 - Workload remains robust and is growing in some cases
 - T&E resources are in a state of decline
 - Lack of sufficient investment funds inhibits ability to improve efficiency
- **Focus on how to best support the acquisition process**